

Please amend the application as follows:

Amendments to the Specification

At page 7, line 9, change "position 81" to -position 80-.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin selected from the group consisting of NGF, NT-3 and BDNF having improved secretion efficiency as compared to a wild-type neurotrophin, wherein the wild-type pro-neurotrophin has an asparagine residue at a position 8 amino acids upstream from the site of cleavage for the mature neurotrophin, the mutant pro-neurotrophin comprising a polypeptide in which the wild-type asparagine residue is replaced by a basic residue.
2. (Previously Presented) The mutant pro-neurotrophin according to Claim 1, wherein the basic residue is serine.
3. (Cancelled) The mutant pro-neurotrophin according to Claim 1, wherein the corresponding neurotrophin is selected from the group consisting of NGF, NT-3 and BDNF.
4. (Previously Presented) The mutant pro-neurotrophin according to Claim 1, wherein the polypeptide is a recombinant one, and the replacement of the wild-type asparagine is made by mutation of a polynucleotide encoding the wild-type pro-neurotrophin.
5. (Currently Amended) A mutant pro-neurotrophin for use in intracellular processing of [a corresponding] the NT 4/5 neurotrophin having improved secretion efficiency as compared to [a] wild-type NT 4/5 neurotrophin, wherein the wild-type pro-neurotrophin has an asparagine residue at a position 4 amino acids upstream from the site of cleavage for the mature neurotrophin, the mutant pro-neurotrophin comprising a polypeptide in which the wild-type asparagine residue is replaced by a basic residue.
6. (Previously Presented) The mutant pro-neurotrophin according to Claim 5, wherein the basic residue is serine.
7. (Cancelled) The mutant pro-neurotrophin according to Claim 5, wherein the corresponding neurotrophin is NT-4/5.
8. (Previously Presented) The mutant pro-neurotrophin according to Claim 5,

wherein the polypeptide is a recombinant one, and the replacement of the wild-type asparagine is made by mutation of a polynucleotide encoding the wild-type pro-neurotrophin.

9. (Previously Amended) A mutant pro-neurotrophin precursor polypeptide selected from the group of polypeptides consisting of SEQ.ID.Nos. 2, 4, 6 and 8.

10. (Previously Presented) A mutant pro-neurotrophin comprising the precursor polypeptide of Claim 5 joined by a cleavage site to a corresponding mature neurotrophin.

Claims 11- 25 are withdrawn as non-elected claims, without prejudice to their presentation in a later-filed application.

11. (Withdrawn) A polynucleotide encoding a mutant pro-neurotrophin, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 8 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue.

12. (Withdrawn) The polynucleotide according to Claim 7, wherein the substitution codon encodes serine.

13. (Withdrawn) The polynucleotide according to Claim 7, wherein the corresponding neurotrophin is selected from the group consisting of NGF, NT-3 and BDNF.

14. (Withdrawn) The polynucleotide of SEQ.ID.No. 16.

15. (Withdrawn) A polynucleotide encoding a mutant pro-neurotrophin, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 4 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue.

16. (Withdrawn) The polynucleotide according to Claim 15, wherein the substitution codon encodes serine.

17. (Withdrawn) The polynucleotide according to Claim 15, wherein the corresponding neurotrophin is NT-4/5.

18. (Withdrawn) A recombinant expression vector containing the polynucleotide of any of Claims 11, 14 or 15.

19. (Withdrawn) A host cell containing the recombinant expression vector of any of Claims 11, 14 or 15.

20. (Withdrawn) A pharmaceutical composition comprising the recombinant expression vector of any of Claims 11, 14 or 15.

21. (Withdrawn) A pharmaceutical composition comprising the host cell of of any of Claims 11, 14 or 15.

22. (Withdrawn) A process for producing a mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin having improved secretion efficiency as compared to wild-type neurotrophin, the process comprising (a) synthesis of the mutant pro-neurotrophin encoding polynucleotide, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 8 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue; and (b) causing the synthetic polynucleotide to express the pro-neurotrophin.

23. (Withdrawn) The process according to Claim 22, wherein the polynucleotide of Claims 11 or 14 is produced by step (a).

24. (Withdrawn) A process for producing a mutant pro-neurotrophin for use in intracellular processing of a corresponding neurotrophin having improved secretion efficiency as compared to wild-type neurotrophin, the process comprising (a) synthesis of the mutant pro-neurotrophin encoding polynucleotide, wherein the polynucleotide differs in nucleotide sequence from wild-type by replacement of the codon encoding a target asparagine residue, at a position 4 amino acids upstream from the site of cleavage for the corresponding neurotrophin, with a substitution codon encoding a basic residue; and (b) causing the synthetic polynucleotide to express the pro-neurotrophin.

25. (Withdrawn) The process according to Claim 22, wherein the polynucleotide of Claim 15 is produced by step (a).

REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Claims 3 and 7 are requested to be cancelled.

Claims 1 and 5 are currently being amended.

Claims 11-25 are being withdrawn as non-elected claims.